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# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Inve	Intion METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS			
As the below named inventor(s), I/we declare that:				
This declaration	is directed to	<b>)</b> :	:	
	$\Box$	The attached applica	tion, or	
		Application No. 10/6	22,081, filed on July 16, 2	003,
	,	as amended on _	(if applicable);	
I/we believe that I/n sought;	we am/are the	original and first inventor(s) o	f the subject matter which is	claimed and for which a patent is
I/we have reviewed amendment specifi			identified application, includ	ing the claims, as amended by eny
material to patent became available	I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.			
All statements made herein of my/our own knowledge are true; all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.				
FULL NAME O	E INIVENITA	P/\$\		
Inventor 1		PPENS GROENEWEGEN	Date:	3/18/04
	ARINE SIF	FENS GROENEWEGEN	Citizen	
Signature:			·	,,, <u>00</u>
inventor 2	OMAR AN	1IRANA	Date:	
Signature:			Cilizen (	of: US
Inventor 3	TERRANG	CE RANSBURY	Date:	
Signature:			Citizen	of: US
Inventor 4	SCOTT D	ENTINO	Date:	
Signature:		· .	Citizen	of: US
Additional Inventors are being named on additional form(s) attached hereto.				

Attorney Docket No.: 020061-000410US Client Ref. No.:

Title of Invention

PTO/SB/01A (08-03)

### DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF

	MYOCARDIAL INFARCTIONS		
As the below named inventor(s), I/we declare that:			
This declaration i	is directed to:		
	☐ The attached application, or		
	Application No. 10/622,081	, filed on July 16, 2003,	
	as amended on(	if applicable);	
I/we believe that I/v sought;	ve arn/are the original and first Inventor(s) of the su	bject matter which is claimed and for which a patent is	
	l and understand the contents of the above-identific cally referred to above;	ed application, including the claims, as amended by any	
material to patent became available	I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all Information known to me/us to be material to patentability as defined in 37 CFR 1.58, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.		
All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.			
FULL NAME OF	INVENTOR(S)		
Inventor 1	ARNE SIPPENS GROENEWEGEN	Date:	
Signature:		Citizen of: US	
inventor 2	OMAR AMIRANA	Date: 3/19/04	
Signature:	Jun Climicaa, MD	Citizen of: US	
Inventor 3	TERRANCE RANSBURY	Date:	
Signature:		Citizen of: US	
Inventor 4	SCOTT DENTINO	Date:	
Signature:		Citizen of. US	
Additional inventors are being named on additional form(s) attached hereto.			

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHODS AND APPARATUS FOR E MYOCARDIAL INFARCTIONS	ENHANCING DIAGNOSIS OF	
As the below named inventor(s), I/we declare that:			
This declaration is directed	ed to:		
1	☐ The attached application, or		
1	Application No. 10/622,081, filed or	n July 16, 2003,	
	as amended on (if applications)	able);	
I/we believe that I/we am/are sought;	e the original and first inventor(s) of the subject ma	tter which is claimed and for which a patent is	
I/we have reviewed and undamendment specifically refer	erstand the contents of the above-identified applicated to above;	ation, including the claims, as amended by any	
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.			
All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.			
FULL NAME OF INVENTOR(S)			
Inventor 1 ARNE	SIPPENS GROENEWEGEN	Date:	
Signature:		Citizen of: US	
Inventor 2 OMAR	AMIRANA	Date:	
Signature:		Citizen of: US	
	ANCE RANSBURY	Date: 11/24/03	
Signature:	Leuauce Rondry	Citizen of: US	
Inventor 4 SCOT	T DENTINO	Date:	
Signature:		Citizen of: US	
Additional inventors are being named on additional form(s) attached hereto.			



Client Ref. No.:

PTO/SB/01A (08-03)

### DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHODS AND APPARATUS FOR E MYOCARDIAL INFARCTIONS	NHANCING	DIAGNOSIS OF	
As the below named inventor(s), I/we declare that:				
This declaration is directe	ed to:			
[	The attached application, or			
C	Application No. 10/622,081, filed or	July 16, 200	3,	
	as amended on (if application)	able);		
I/we believe that I/we am/are sought;	e the original and first inventor(s) of the subject ma	iter which is cla	almed and for which a patent is	
I/we have reviewed and under amendment specifically refer	erstand the contents of the above-identified applic rred to above;	ation, including	the claims, as amended by an	У
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.				
All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.				
FULL NAME OF INVEN	ITOR(S)			
	SIPPENS GROENEWEGEN	Date:		
Signature:		Citizen of:	US	
Inventor 2 OMAR	AMIRANA	Date:		
Signature:		Citizen of:	US	er er
Inventor 3 TERRA	ANCE RANSBURY	Date:		
Signature:		Citizen of:	us	
Inventor 4 G. SCOT	T DENTINO	Date:	3/17/04	
Signature:	N SPE	Citizen of:	us	
Additional inventors are being named on additional form(s) attached hereto.				



**POWER OF ATTORNEY OR** 

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

ARNE SIPPENS GROENEWEGEN

Methods and Apparatus for **Enhancing Diagnosis of Myocardial** 

10/622,081

07/16/2003

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number

**First Named Inventor** 

Filing Date

#### Title AUTHORIZATION OF AGENT Infarctions 3736 **Group Art Unit Examiner Name** 20061000410 Attorney Docket Number I hereby appoint: Place Customer ☑ Practitioners at Customer Number 20350 Number Bar Code Label here ☐ Practitioner(s) named below: Registration Number Name as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: ☐ The above-mentioned Customer Number. OR MARK D. BARRISH Individual Name Address Address ZIP City State Country Fax Telephone I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name TERRY RANSBURY, President Signature Date NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*. ★Total of 1 form(s) is submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/96 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER	37 CFR 3.73(b)			
Applicant/Patent Owner: ARNE SIPPENS GROENEWEGEN	et al.			
Application No./Patent No.: 10/622,081 Filed/Issue Date: 07/16/2003				
Entitled: METHOD AND APPARATUS FOR ENHANCING DIA				
CARDIAC FOCUS, INC. , a CALIFOL				
	e, e.g., corporation, partnership, university, government agency, etc.)			
states that it is:				
1.				
2. an assignee of an undivided part interest				
in the patent application/patent identified above by virtue of either	r:			
A. An assignment from the inventor(s) of the patent application recorded in the Patent and Trademark Office at Reel attached.	on/patent identified above. The assignment was, Frame, or for which a copy thereof is			
OR				
B. A chain of title from the inventor(s), of the patent application shown below:	on/patent identified above, to the current assignee as			
	o :			
The document was recorded in the United States Pat Reel, Frame, or for which a copy thereo				
2. From:	o :			
The document was recorded in the United States Pat Reel, Frame, or for which a copy thereo				
3. From:	o :			
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
Additional documents in the chain of title are listed or	n a supplemental sheet.			
☐ Copies of assignments or other documents in the chain of title are attached.  [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]				
The undersigned (whose title is supplied below) is empowered to	sign this statement on behalf of the assignee.			
3/22/04	Terry Renaly			
Date	Signature			
	TERRY RANSBURY			
	Typed or printed name			
	PRESIDENT Title			
	1106			

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

#### ASSIGNMENT OF PATENT APPLICATION

JOIŅT

,	WHEREAS, ARNE SIPI	PENS GROENEWEGEN of 5583 GULL Prairie Road, Kalamee
MI 49048	; OMAR AMIF	RANA of
SCOTT DENTING inventors of the inv	of 721 Rosedale, #8, C	apitola, CA 95010 hereinafter referred to as "Assignors," are the t forth in the below-identified application for United States Letters Patent:
· 1	Title of Invention:	METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS
I	Date(s) of execution of C	Declaration: 3.18-04
I	Filing Date:	July 16, 2003
	Application No.:	10/622,081; and
112 Simerville Ros interest in the inventhe same;	nd, Chapel Hill, NC 275  Intion and application and  For good and valuable co	ION MEDICAL, INC., a corporation of the State of California, located at 17, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an d in any U.S. Letters Patent and Registrations which may be granted on onsideration, receipt of which is hereby acknowledged by Assignors,
invention and applin and to any Lette all countries throug Convention. The rassigns as fully and made, for the full trenewal, continuation	ication and to all foreign rs Patent and Registration shout the world, and to di ight, title and interest is if exclusively as it would errn of any Letters Patention in whole or in part, s	ents do assign to Assignee all right, title and interest in and to the counterparts (including patent, utility model and industrial designs), and ons which may hereafter be granted on the same in the United States and claim the priority from the application as provided by the Paris to be held and enjoyed by Assignee and Assignee's successors and have been held and enjoyed by Assignors had this Assignment not been at and Registrations which may be granted thereon, or of any division, substitution, conversion, reissue, prolongation or extension thereof.
cooperate with Ass any improvements, applications and in or maintain Letters	signee in the prosecution , (b) execute, verify, ack struments of transfer, an	that they will, without charge to Assignee, but at Assignee's expense, (a) of U.S. Patent applications and foreign counterparts on the invention and nowledge and deliver all such further papers, including patent of (c) perform such other acts as Assignee lawfully may request to obtain a for the invention and improvements in any and all countries, and to vest cessors and assigns.
i	N TESTIMONY WHE	REOF, Assignors have signed their names on the dates indicated.
Dated: 3/16	8/04	<u> </u>
		ARNE SIPPENS GROENEWEGEN
Dated:	<del></del>	OMAR AMIRANA
Dated:		
		TERRANCE RANSBURY
Dated:		SCOTT DENTINO

60074451 v1

### ASSIGNMENT OF PATENT APPLICATION

	14901 De Veau Place, 10	TNIC
WHEREAS, ARNE SIPP	ENS GROENEWEGEN of	
; OMAR AMIR	ANA of Minuetonka, MINNESOTA 5531	<u> 15</u>
SCOTT DENTINO of 721 Rosedale, #8, Ca	ANSBURY of 112 Simerville Road, Chapel Hill, NC 27517; and apitola, CA 95010 hereinafter referred to as "Assignors," are the forth in the below-identified application for United States Letters Pa	tent:
Title of Invention:	METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS	
Date(s) of execution of De	eclaration: 3/19/04	
Filing Date:	July 16, 2003	
Application No.:	10/622,081; and	
112 Simerville Road, Chapel Hill, NC 2751	ON MEDICAL, INC., a corporation of the State of California, locate 17, hereinafter referred to as "ASSIGNEE," is desirous of acquiring a in any U.S. Letters Patent and Registrations which may be granted or	an
Assignors have assigned, and by these prese invention and application and to all foreign in and to any Letters Patent and Registration all countries throughout the world, and to cl Convention. The right, title and interest is t assigns as fully and exclusively as it would made, for the full term of any Letters Patent	nsideration, receipt of which is hereby acknowledged by Assignors, ents do assign to Assignee all right, title and interest in and to the counterparts (including patent, utility model and industrial designs), as which may hereafter be granted on the same in the United States a faim the priority from the application as provided by the Paris to be held and enjoyed by Assignee and Assignee's successors and have been held and enjoyed by Assignors had this Assignment not be and Registrations which may be granted thereon, or of any division, abstitution, conversion, reissue, prolongation or extension thereof.	nd een
cooperate with Assignee in the prosecution any improvements, (b) execute, verify, acknowledges applications and instruments of transfer, and	at they will, without charge to Assignee, but at Assignee's expense, of U.S. Patent applications and foreign counterparts on the invention lowledge and deliver all such further papers, including patent it (c) perform such other acts as Assignee lawfully may request to obtain the invention and improvements in any and all countries, and to essors and assigns.	and tain
IN TESTIMONY WHER	EOF, Assignors have signed their names on the dates indicated.	
Dated:	ARME SIPPENS PROENEWEGEN	
Dated: 3/19/04	MAR AMIRANA  OMAR AMIRANA	
Dated:	TERRANCE RANSBURY	
Dated:	SCOTT DENTINO	

60074451 v1

### ASSIGNMENT OF PATENT APPLICATION

**JOINT** 

WHEREAS, ARNE SIPPENSGROENEWEGEN of 3662 Hillside Drive, Burlingame, CA 94010; OMAR AMIRANA of 1576 Union Street #2 San Francisco CA 94123: TERRANCE RANSBURY of 2560

Grappa Place referred to as	e, Pleasanton, CA 94566; ai	and SCOTT DENTINO of 721 Rosedale, #8, Capitola, CA 95010 hereinafter ators of the invention described and set forth in the below-identified tent:
	Title of Invention:	METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS
	Date(s) of execution o	of Declaration: 11 - 24 • 03
	Filing Date:	July 16, 2003
	Application No.:	10/622,081; and
	Place, Pleasanton, CA, 945	UTION MEDICAL, INC., a corporation of the State of California, located at 566, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an and in any U.S. Letters Patent and Registrations which may be granted on
invention and in and to any all countries of Convention. assigns as ful made, for the	ve assigned, and by these p d application and to all fore Letters Patent and Registra throughout the world, and the The right, title and interest lly and exclusively as it wo full term of any Letters Pa	e consideration, receipt of which is hereby acknowledged by Assignors, presents do assign to Assignee all right, title and interest in and to the sign counterparts (including patent, utility model and industrial designs), and ations which may hereafter be granted on the same in the United States and to claim the priority from the application as provided by the Paris it is to be held and enjoyed by Assignee and Assignee's successors and buld have been held and enjoyed by Assignors had this Assignment not been attent and Registrations which may be granted thereon, or of any division, at, substitution, conversion, reissue, prolongation or extension thereof.
any improver applications a or maintain L	th Assignee in the prosecut ments, (b) execute, verify, a and instruments of transfer,	the that they will, without charge to Assignee, but at Assignee's expense, (a) action of U.S. Patent applications and foreign counterparts on the invention and acknowledge and deliver all such further papers, including patent and (c) perform such other acts as Assignee lawfully may request to obtain ions for the invention and improvements in any and all countries, and to vest successors and assigns.
	IN TESTIMONY WE	HEREOF, Assignors have signed their names on the dates indicated.
Dated:		ARNE SIPPENSGROENEWEGEN
Dated:		OMAD AMEDIANA
Dated:	11/24/03	OMAR AMIRANA  Selle Masley  TERRANCE RANSBURY
Dated:		

SCOTT DENTINO



### ASSIGNMENT OF PATENT APPLICATION

	JOINT
WHEREAS ARNI	E SIPPENS GROENEWEGEN of
•	AMIRANA of
; TERRA	NCE RANSBURY of 112 Simerville Road, Chapel Hill, NC 27517; and
SCOTT DENTINO of 721 Rosedale, inventors of the invention described a	#8, Capitola, CA 95010 hereinafter referred to as "Assignors," are the and set forth in the below-identified application for United States Letters Patent:
Title of Invention:	METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS
Date(s) of executio	n of Declaration: 3/17/04
Filing Date:	July 16, 2003
Application No.:	10/622,081; and
112 Simerville Road, Chapel Hill, NO	DLUTION MEDICAL, INC., a corporation of the State of California, located at C 27517, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an on and in any U.S. Letters Patent and Registrations which may be granted on
Assignors have assigned, and by thes invention and application and to all fin and to any Letters Patent and Regiall countries throughout the world, ar Convention. The right, title and interassigns as fully and exclusively as it made, for the full term of any Letters	ble consideration, receipt of which is hereby acknowledged by Assignors, e presents do assign to Assignee all right, title and interest in and to the oreign counterparts (including patent, utility model and industrial designs), and strations which may hereafter be granted on the same in the United States and ad to claim the priority from the application as provided by the Paris rest is to be held and enjoyed by Assignee and Assignee's successors and would have been held and enjoyed by Assignors had this Assignment not been Patent and Registrations which may be granted thereon, or of any division, part, substitution, conversion, reissue, prolongation or extension thereof.
cooperate with Assignee in the prose any improvements, (b) execute, verif applications and instruments of trans	gree that they will, without charge to Assignee, but at Assignee's expense, (a) cution of U.S. Patent applications and foreign counterparts on the invention and y, acknowledge and deliver all such further papers, including patent fer, and (c) perform such other acts as Assignee lawfully may request to obtain rations for the invention and improvements in any and all countries, and to vest 's successors and assigns.
IN TESTIMONY V	WHEREOF, Assignors have signed their names on the dates indicated.
Dated:	ARNE SIPPENS GROENEWEGEN
Dated:	OMAR AMIRANA
Dated:	
Dated: 3/17/04	TERRANCE RANSBURY  SCOTT DENTINO

60074451 vl